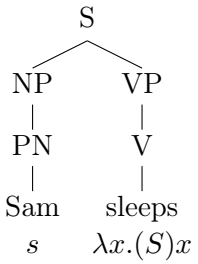
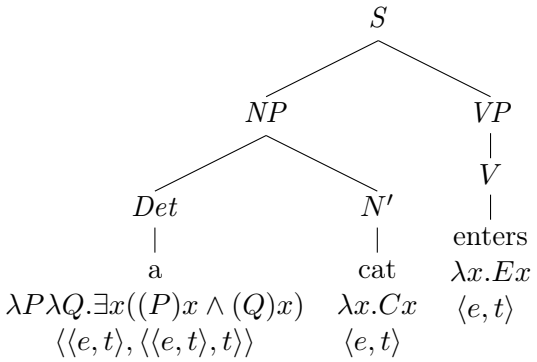
(1) a. Sam sleeps
b. $(S)s$



S	$\rightarrow$	NP	VP
$[\![S]\!]$	$\leftarrow$	$([\![VP]\!])$	$[\![NP]\!]$
0	$\leftarrow$	(2)	1
NP	$\rightarrow$	PN	
0	$\leftarrow$	1	
VP	$\rightarrow$	V	
0	$\leftarrow$	1	
PN	$\rightarrow$	Sam	
0	$\leftarrow$	s	
V	$\rightarrow$	sleeps	
0	$\leftarrow$	$\lambda x.(S)x$	

(2) a. A cat enters
b. $\exists x\ (Cx \wedge Ex)$



S	$\rightarrow$	NP	VP
0	$\leftarrow$	(1)	2
NP	$\rightarrow$	Det	N'
0	$\leftarrow$	(1)	2
VP	$\rightarrow$	V	
0	$\leftarrow$	1	

— A cat enters $\exists x\ (Cx \wedge Ex)$
— Sam likes Pam Lsp (or $((L)s)p$
— Everyone likes Pam $\forall x\ (Px \rightarrow Lxp)$
— Everyone likes an actress $\forall x\ (Px \rightarrow \exists y\ (Ay \wedge Lxy))$
— Sam is mortal Ms
— Sam met a tall person $\exists x((Px \wedge Tx) \wedge Msx)$
— Sam doesn't sleep $\neg Ss$